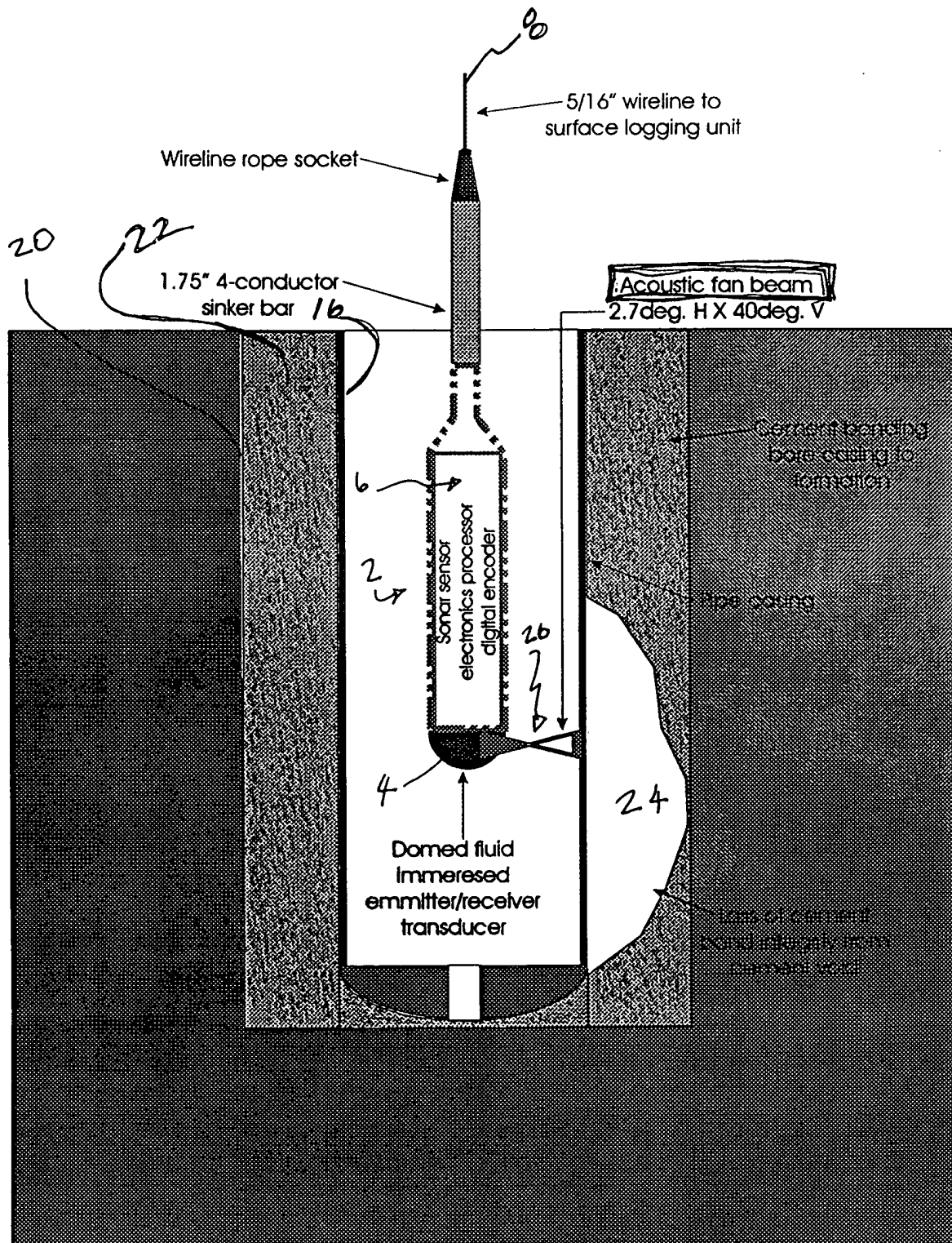


Fig. 2



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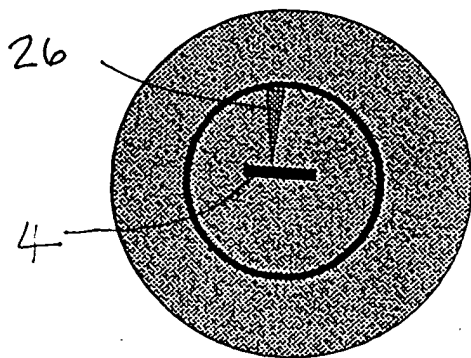


Fig. 3A

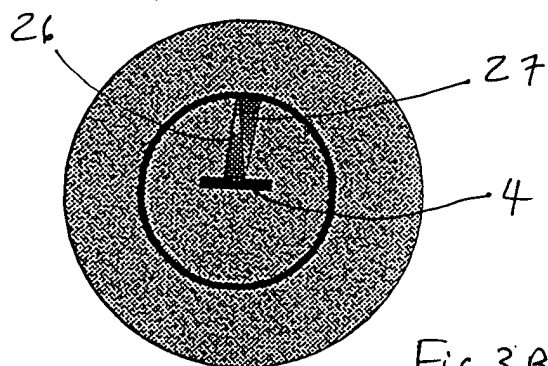


Fig. 3B

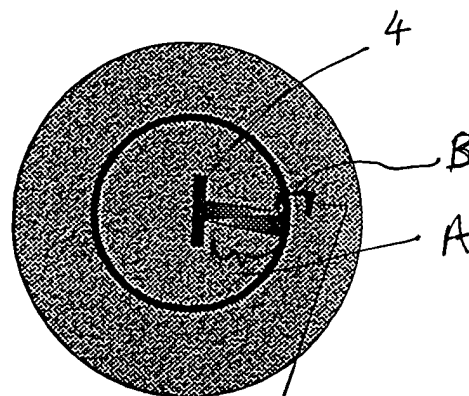
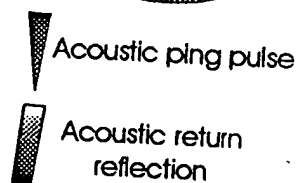


Fig. 4

Acoustic returns over a gated time interval corresponding to prior to pipe wall interaction and beyond pipe wall interaction are used for analysis

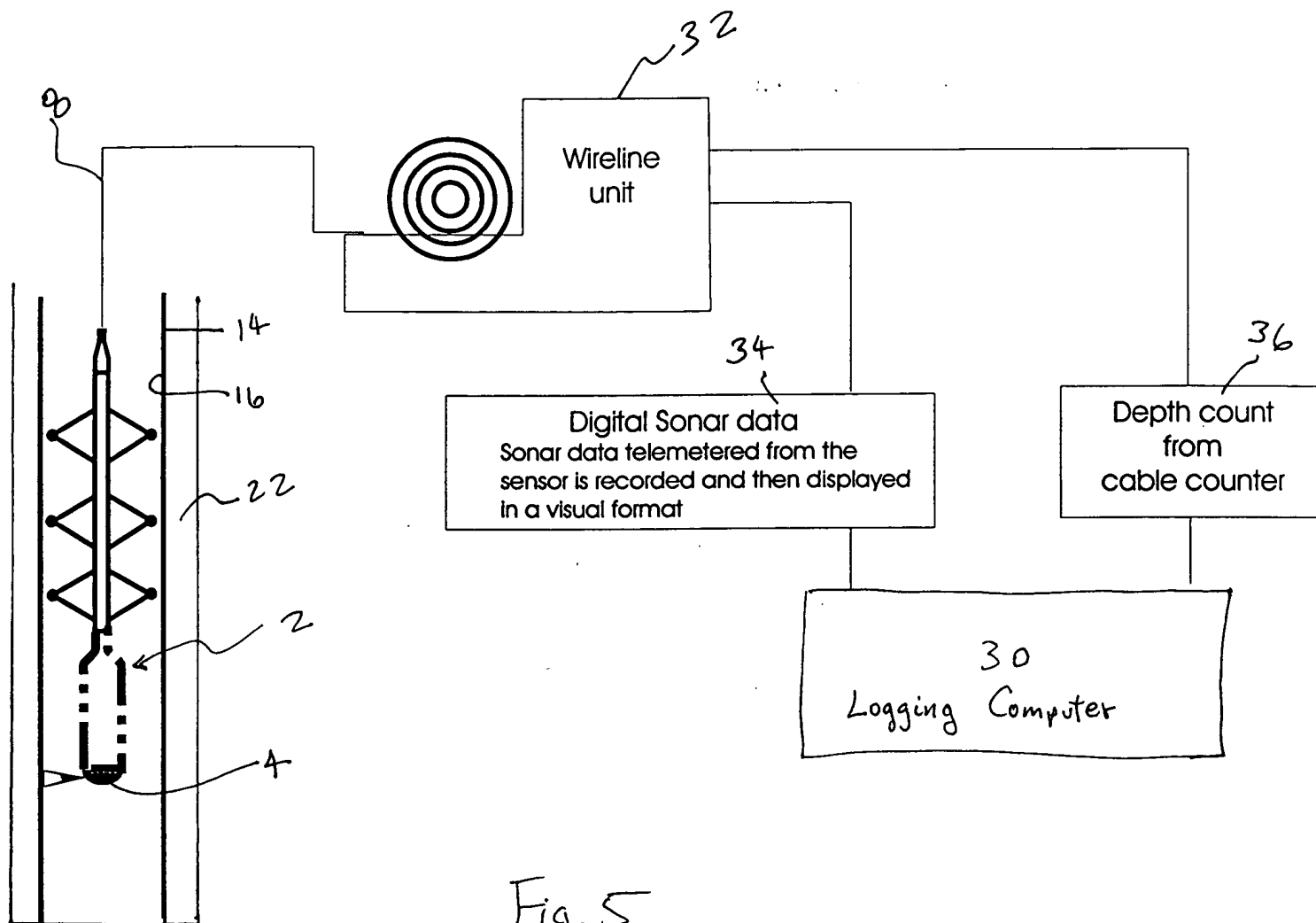


Fig. 5

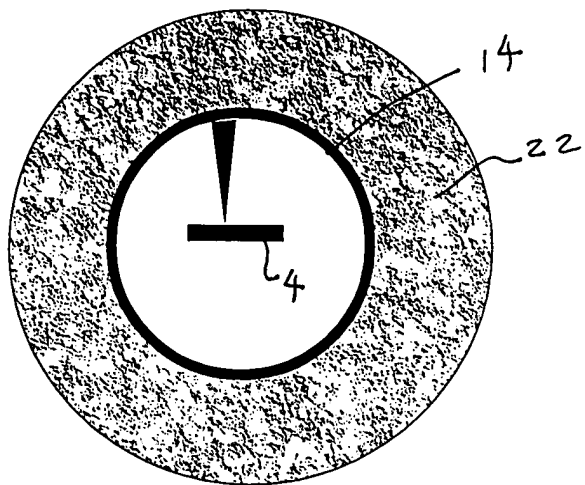


Fig. 6A

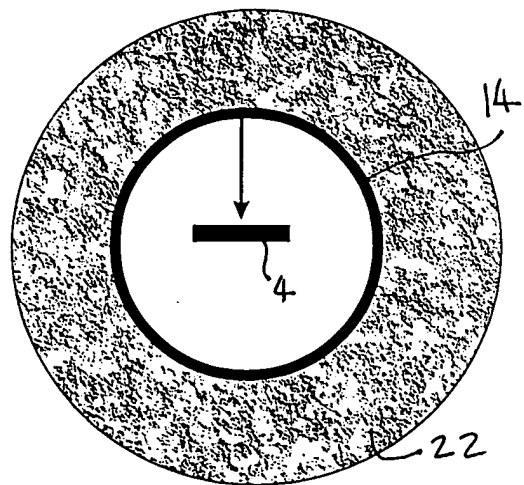


Fig. 6B

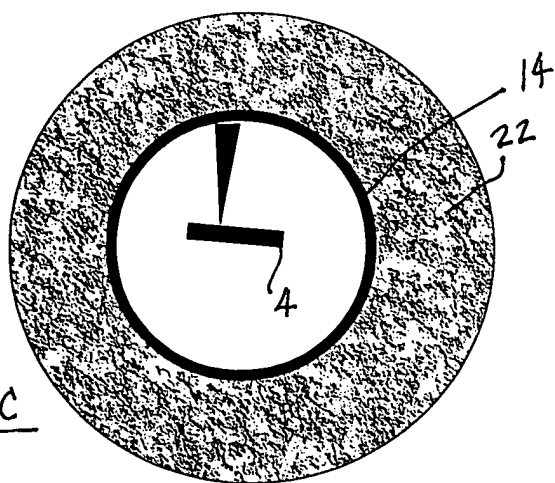


Fig. 6C

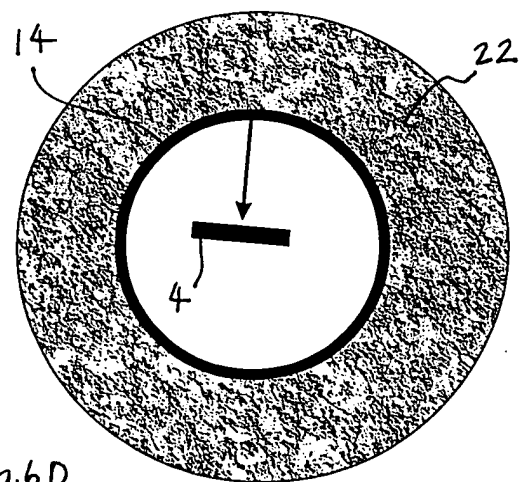


Fig. 6D

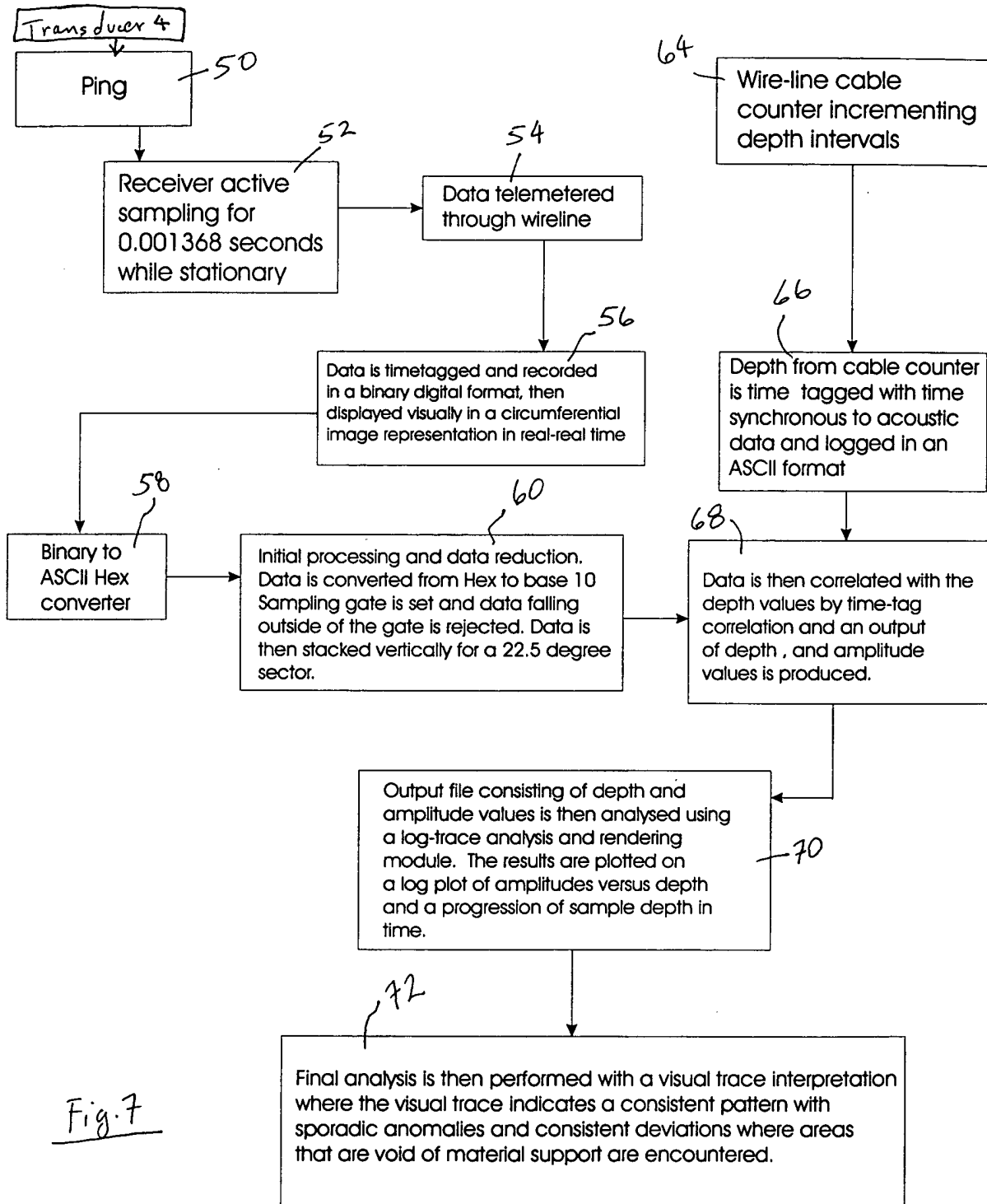
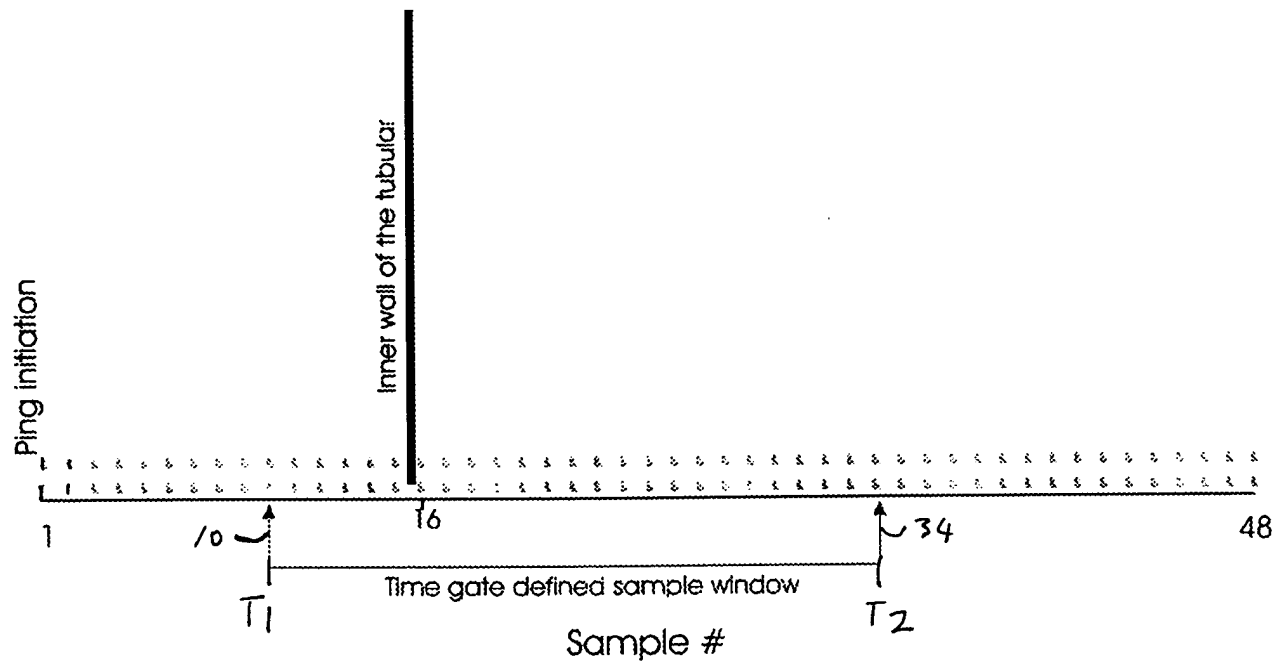


Fig.7

Figure 8



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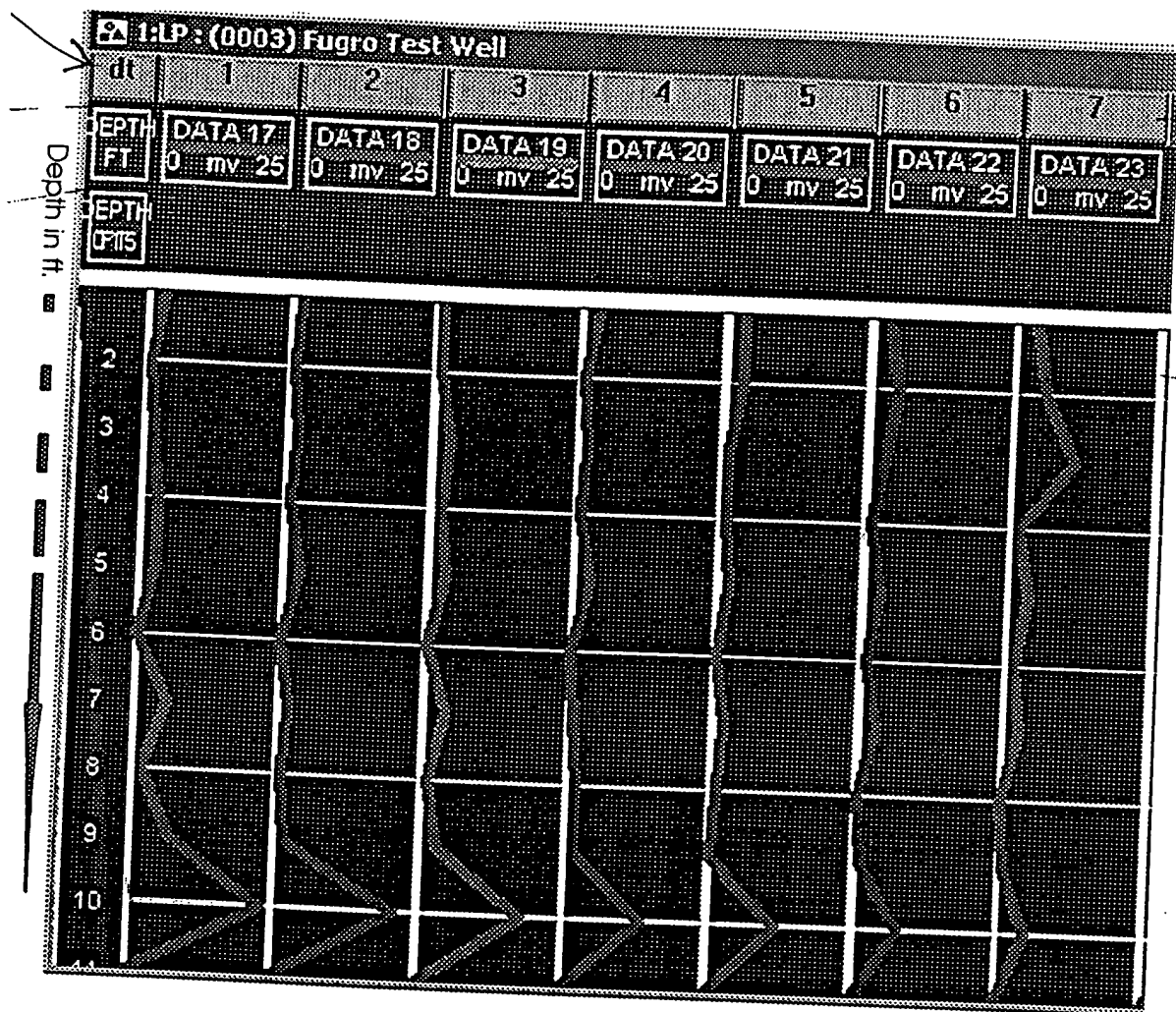


Fig. 9

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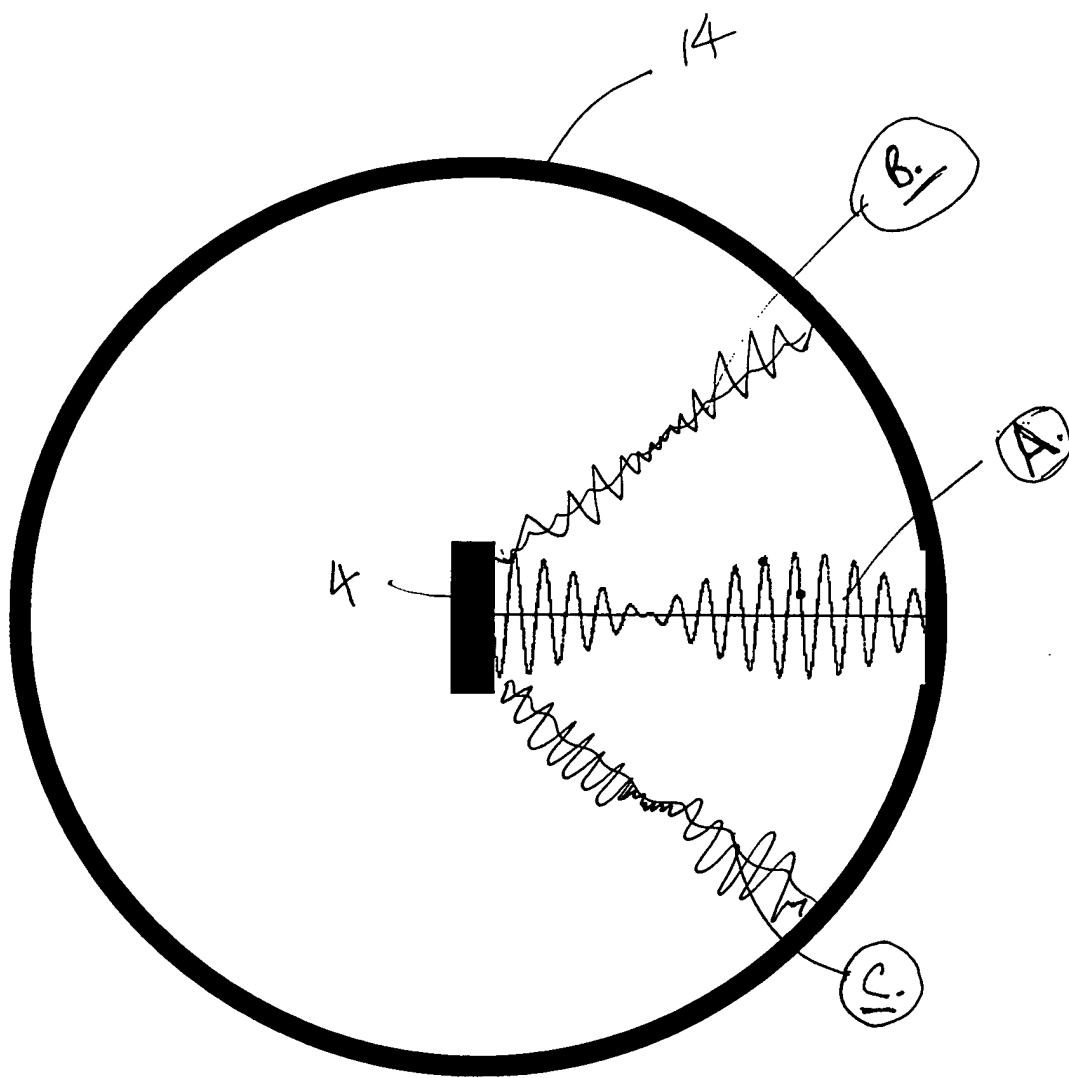


Fig. 10

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